

INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/07248

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N9/04 C12P07/02 C12P41/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N C12P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, EPO-Internal, MEDLINE, PAJ, WPI Data, CHEM ABS Data, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>ANDERSSON MATS ET AL: "Evaluation of <i>Alcaligenes eutrophus</i> cells as an NADH regenerating catalyst in organic-aqueous two-phase system"</p> <p>BIOTECHNOLOGY AND BIOENGINEERING, vol. 57, no. 1, 5 January 1998 (1998-01-05), pages 79-86, XP002262531</p> <p>ISSN: 0006-3592</p> <p>abstract</p> <p>page 79, column 2, last paragraph</p> <p>page 85, column 2, last paragraph</p> <p>---</p> <p>-/--</p>	1-14

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

24 November 2003

Date of mailing of the international search report

09/12/2003

Name and mailing address of the ISA

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PCT/EP 03/07248

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JONSSON ASA ET AL: "Thermodynamic and kinetic aspects on water vs. organic solvent as reaction media in the enzyme-catalysed reduction of ketones" BIOCHIMICA ET BIOPHYSICA ACTA, vol. 1430, no. 2, 19 March 1999 (1999-03-19), pages 313-322, XP002262532 ISSN: 0006-3002 abstract page 314, column 2, paragraph 2.3	1-14
X,P	GROEGER HARALD ET AL: "Practical asymmetric enzymatic reduction through discovery of a dehydrogenase-compatible biphasic reaction media." ORGANIC LETTERS, vol. 5, no. 2, 23 January 2003 (2003-01-23), pages 173-176, XP002262533 ISSN: 1523-7060 (ISSN print) the whole document	1-14
P,A	WO 02 086126 A (GUPTA ANTJE ;BANGE GERT (DE); BREESE KLAUS (DE); JUELICH ENZYME PR) 31 October 2002 (2002-10-31) abstract page 2, line 16 - line 19 page 8, line 1 - line 5 page 8, line 17 - line 30 page 23; example 3	1-14
A	HUMMEL W: "NEW ALCOHOL DEHYDROGENASES FOR THE SYNTHESIS OF CHIRAL COMPOUNDS" ADVANCES IN BIOCHEMICAL ENGINEERING, BIOTECHNOLOGY, SPRINGER, BERLIN, DE, vol. 58, 1997, pages 145-184, XP000677754 ISSN: 0724-6145 the whole document	1-14
A	BRANDSHAW C W ET AL: "ENZYMATIC SYNTHESIS OF (R) AND (S) 1-DEUTEROHEXANOL" APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, CLIFTON, NJ, US, vol. 33, no. 1, 1 April 1992 (1992-04-01), pages 15-24, XP002053169 ISSN: 0273-2289 the whole document	1-14
E	WO 03 072793 A (WANDREY CHRISTIAN ;HUMMEL WERNER (DE); LIESE ANDREAS (DE); KERNFOR) 4 September 2003 (2003-09-04) the whole document	1-14

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

PCT/EP 03/07248

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 02086126	A	31-10-2002	DE	10119274 A1	31-10-2002
			WO	02086126 A2	31-10-2002
WO 03072793	A	04-09-2003	DE	10208007 A1	18-09-2003
			WO	03072793 A2	04-09-2003